

Missouri Department of Natural Resources

## Total Maximum Daily Load Information Sheet

### Williams Creek - St. Louis County

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#### Water Body Segment at a Glance:

<b>County:</b>	St. Louis
<b>Nearby City:</b>	Valley Park
<b>Water Body ID:</b>	3594
<b>Segment Length:</b>	1 mile
<b>Watershed Size:</b>	9.5 square miles
<b>Pollutant 1:</b>	Bacteria
<b>Pollutant 2:</b>	pH
<b>Source 1:</b>	Urban runoff/Storm sewers
<b>Source 2:</b>	Unknown



Statewide Map Showing Location of Watershed

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**Scheduled for TMDL development:** 2014 for Bacteria; 2017 for pH

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#### Description of the Problem

##### Designated beneficial uses of Williams Creek

- Livestock and Wildlife Watering
- Protection of Warm Water Aquatic Life
- Protection of Human Health (Fish Consumption)
- Whole Body Contact Recreation – Category B

##### Uses that are impaired

- Protection of Warm Water Aquatic Life
- Whole Body Contact Recreation – Category B

##### Standards that apply

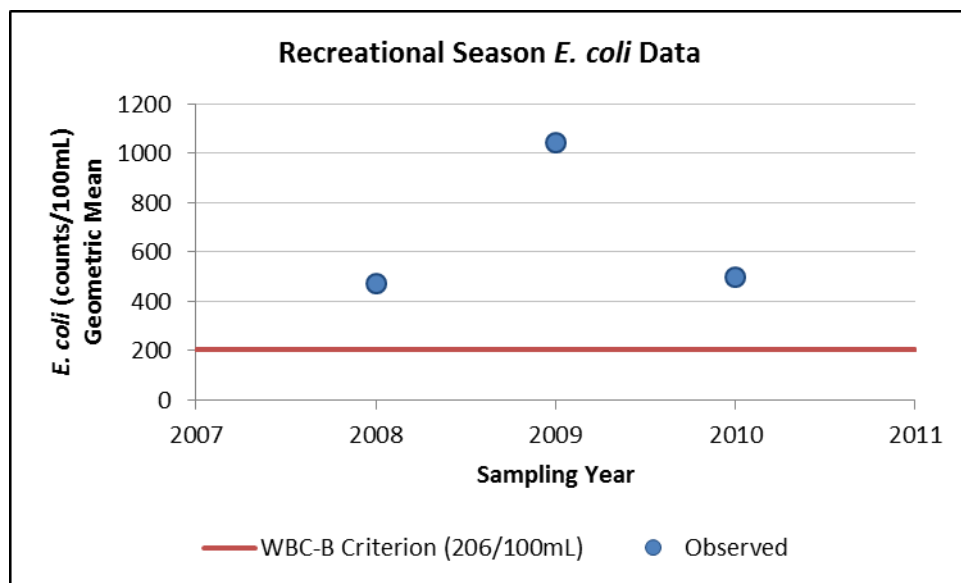
- Missouri's Water Quality Standards at 10 CSR 20-7.031(4)(C) states that the *E. coli* bacteria count for category B waters, measured as a geometric mean, shall not exceed 206 colonies per 100 milliliters of water (206 col/100 mL) during the recreational season. The recreational season is defined as being from April 1 through October 31.
- Criteria for pH are found at 10 CSR 20-7.031 (4)(E). Water contaminates shall not cause pH to be outside of the range of 6.5 to 9.0 standard pH units.

##### Background information and water quality data

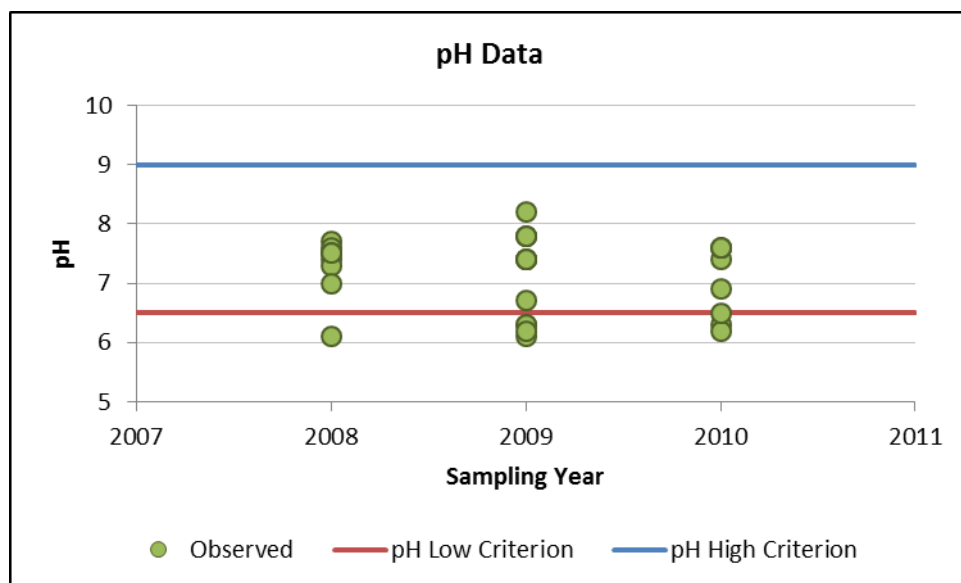
Williams Creek is located in southern St. Louis County and is a tributary to the Meramec River. The department judges a stream to be impaired by bacteria if the applicable water quality criterion for *E.*

Updated: Feb. 2013

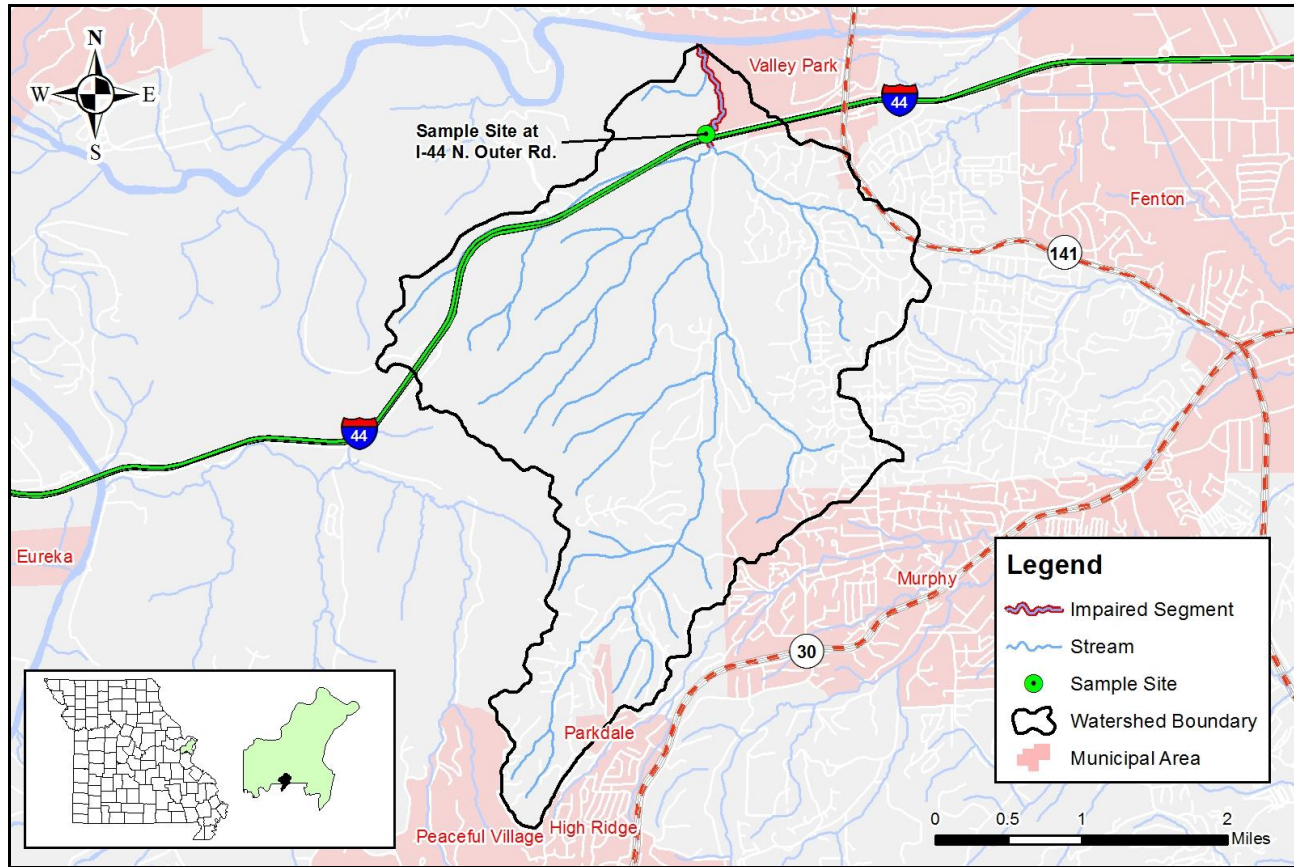
*coli* is exceeded in any of the last three years for which there is a minimum of five samples taken during the recreational season. Sufficient bacteria data is available for the 2008, 2009 and 2010 recreational seasons. The geometric mean criterion was exceeded each of these years.



For pH, a water body is judged to be impaired if 10 percent of available pH measurements exceed the criteria. For Williams Creek, eight of 54 pH measurements, or 14 percent, failed to meet the pH criteria. Therefore, Williams Creek was judged to be impaired by low pH.



## Map Showing the Williams Creek Watershed



### For more information call or write:

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Water Protection Program

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1-800-361-4827 or 573-751-1300 office

573-526-6802 fax

Program Home Page: [dnr.mo.gov/env/wpp/index.html](http://dnr.mo.gov/env/wpp/index.html)

NOTE: The final Williams Creek TMDL will use the most recent and available data and information.